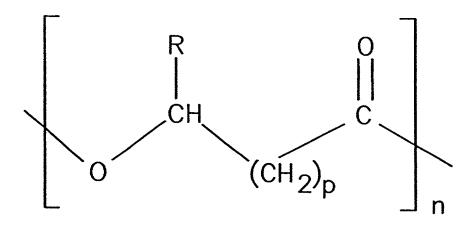
Express Mail No.: EL 888273723 US



If
$$p=1$$
:

$$PHA SCL \begin{cases} R = -CH_3 & \Longrightarrow P(3HB) \\ R = -CH_2CH_3 & \Longrightarrow P(3HV) \end{cases}$$

$$\begin{array}{c} \mathsf{PHA} \\ \mathsf{MCL} \\ \mathsf{R} = - (\mathsf{CH}_2)_2 \, \mathsf{CH}_3 \Longrightarrow \, \mathsf{P}(\mathsf{3HH}) \\ \mathsf{R} = - (\mathsf{CH}_2)_4 \, \mathsf{CH}_3 \Longrightarrow \, \mathsf{P}(\mathsf{3HO}) \end{array}$$

FIG. 1

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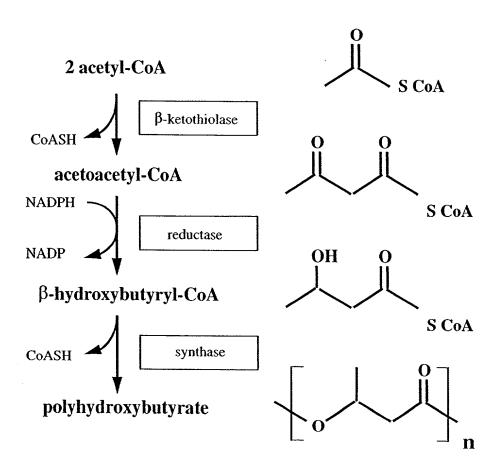


FIG. 2

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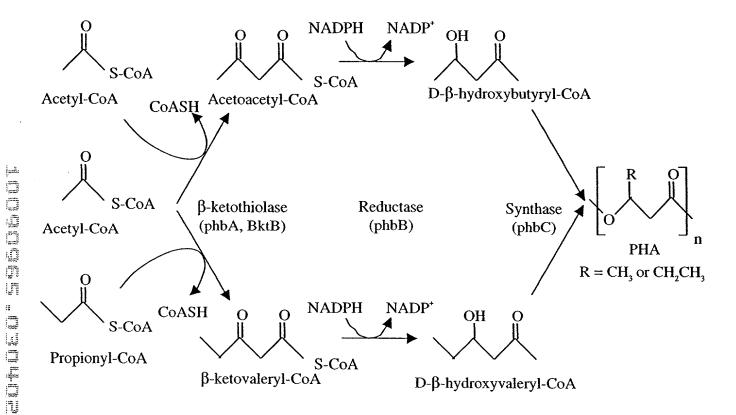
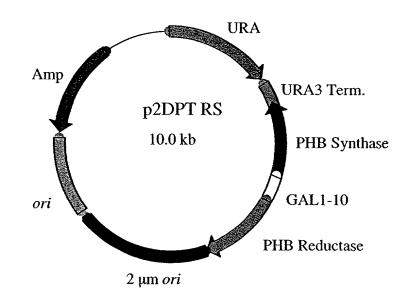


FIG. 3

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Reductase Synthase **GALP** 10

FIG. 5

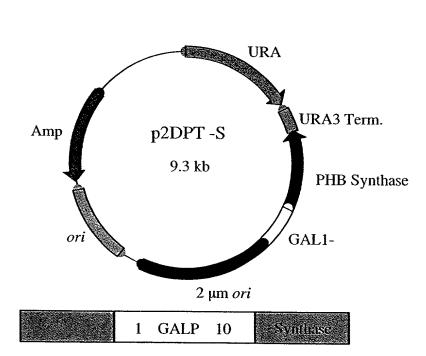


FIG. 6

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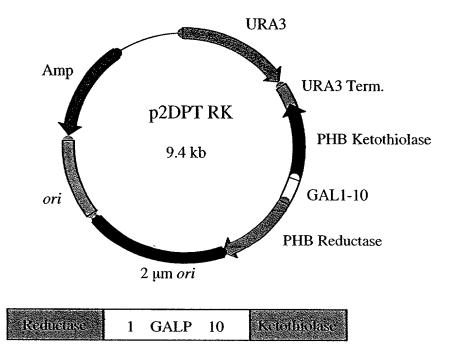


FIG. 7

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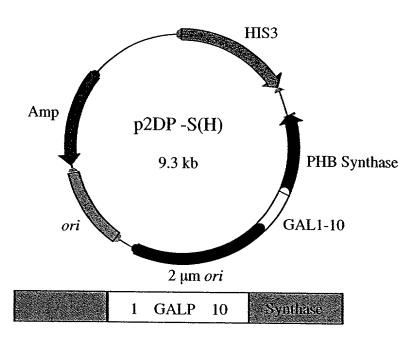


FIG. 8

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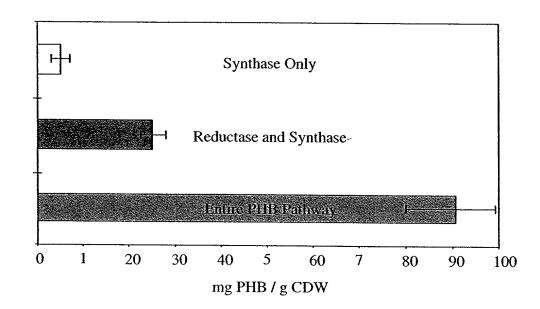


FIG. 9

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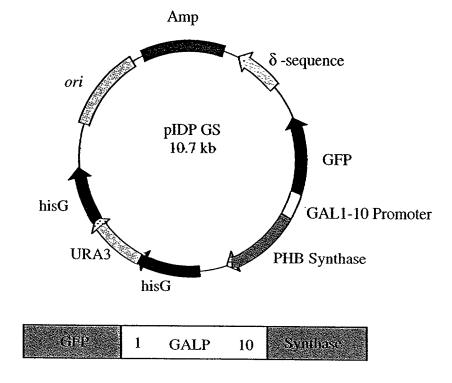


FIG. 10

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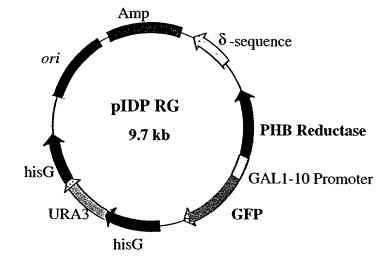


FIG. 11

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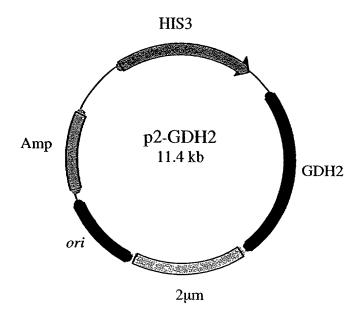
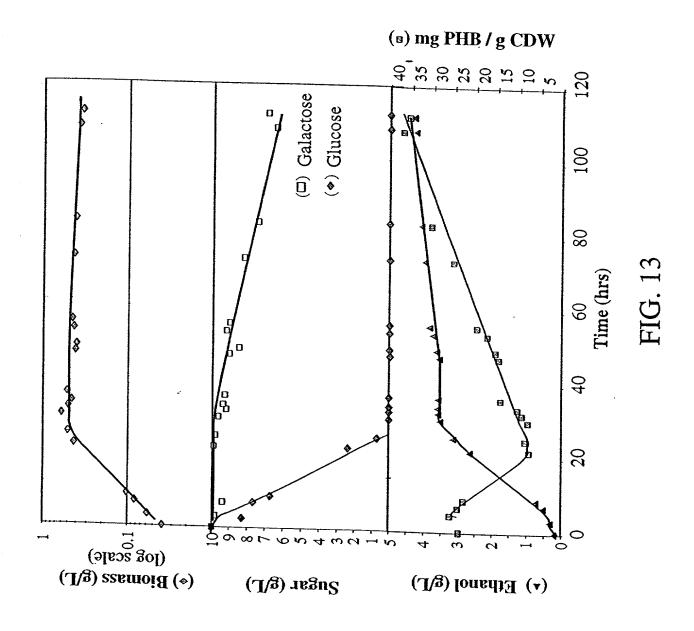


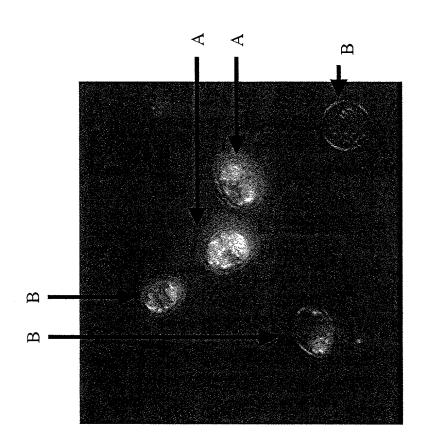
FIG. 12



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Applicant(s): SRIENC et al.

Serial No.: Unassigned Express Mail No.: EL 888273723 US Filed: Herewith

Docket: 110.01480101

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Anaerobic PHB Production in E. coli: Volumetric PHB Content and Cell Dry Weight vs. Time

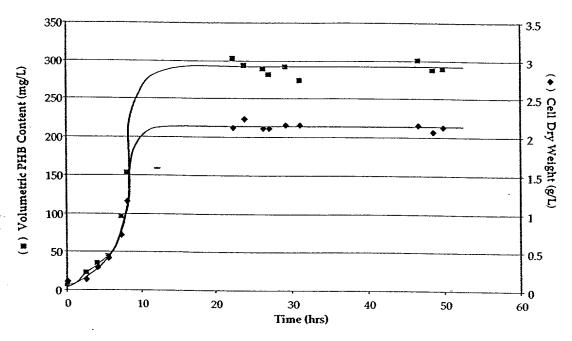
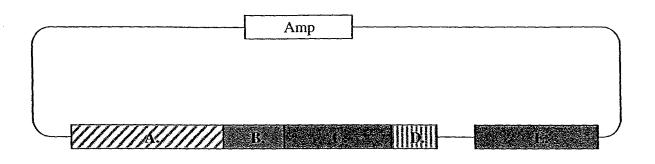


FIG. 15

15

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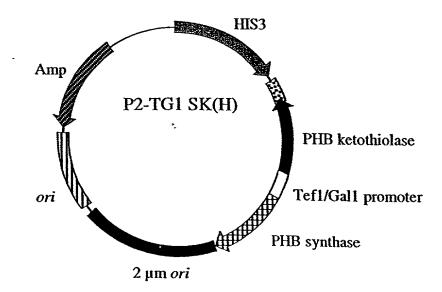


Plasmid Name:	A. Origin of Replication	B. Promoter	C. Gene	D. Termination Sequence	E. Yeast Selection Marker	Approximate Size
D2TG1T -K(U)	2 μm	TEFI/GALI	Ketothiolase	URA3	URA3	8.6 kb
p2TG1 -S(H)	2 μm	TEF1/GAL1	Synthase	None	HIS3	9.0 kb
_# p2TG1 -R(H)	2 μm	TEF1/GAL1	Reductase	None	HIS3	8.0 kb
pITIT K(U)	None-integrative	TEFI	Ketothiolase	URA3	URA3	6.2 kb
pITIT K(U)	None-integrative	TEF2	Ketothiolase	URA3	URA3	6.2 kb
pIT1T S(T)	None-integrative	TEF1	Synthase	URA3	TRPI	6.6 kb
pIT2T S(T)	None-integrative	TEF2	Synthase	URA3	TRP1	6.6 kb
pIT1T R(Le)	None-integrative	TEFI	Reductase	URA3	LEU2	6.8 kb

FIG. 16

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Constitutive Promoter Plasmid System



Synthase	Gal1	Tef1	β-ketothiolase
			, .)

FIG. 17